

What is claimed is:

- 1 1. An architectural archway for an aircraft having an elongated
2 fuselage with an upper crown portion, a floor member and a lower lobe portion,
3 said archway comprising a curved inverted hoop-like structure with two spaced
4 apart end members, said structure adapted to fit inside the fuselage and be
5 positioned on the floor member with said end members positioned on the floor
6 member on opposite sides of the fuselage.
- 1 2. The architectural archway for an aircraft as described in
2 claim 1 wherein said archway is hollow and is adapted to run system components
3 between said upper crown portion and said lower lobe portion, the system
4 components being electrical wires, water lines or conditioned air ducts.
- 1 3. The architectural archway for an aircraft as described in
2 claim 1 wherein said archway has a cross-sectional shape selected from the group
3 comprising V-shaped, U-shaped and semi-circular shaped.
- 1 4. The architectural archway for an aircraft as described in
2 claim 1 further comprising at least one integral passageway in said archway
3 structure for passage of a system component of the aircraft.
- 1 5. The architectural archway for an aircraft as described in
2 claim 1 further comprising a lavatory positioned in said archway structure adjacent
3 one of said end members.
- 1 6. The architectural archway for an aircraft as described in
2 claim 1 further comprising a flight attendant seat member positioned in said
3 archway structure.
- 1 7. A pair of architectural archways for an aircraft having an
2 elongated fuselage with a door member, an upper crown portion, a floor member
3 and a lower lobe portion, each of said archways comprising an inverted curved
4 structure with a curved central portion and two spaced apart leg members, each of
5 said leg members having an end member adapted to be positioned on the floor

6 member, said pair of archways adapted to be positioned in the aircraft adjacent to
7 and framing a door member.

1 8. The pair of architectural archways as described in claim 7
2 wherein said end members of each of said archways are adapted to be positioned on
3 the floor member on opposite sides of the fuselage.

1 9. The pair of architectural archways as described in claim 7
2 wherein each of said archways is hollow and is adapted to run system components
3 between said upper crown portion and said lower lobe portion, the system
4 components being electrical wires, water lines or conditioned air ducts.

1 10. The pair of architectural archways as described in claim 7
2 wherein each of said archways has a cross-sectional shape selected from the group
3 comprising V-shaped, U-shaped and semi-circular shaped.

1 11. The pair of architectural archways as described in claim 7
2 further comprising at least one integral passageway in said archway structure for
3 passage of a system component of the aircraft.

1 12. The pair of architectural archways as described in claim 7
2 wherein at least one of said pair of archway structures has a lavatory in it.

1 13. The pair of architectural archways as described in claim 7
2 wherein at least one of said pair of archway structures has a flight attendant seat
3 member in it.

1 14. An aircraft having a fuselage for carrying passengers, said
2 fuselage having an upper crown portion, a lower lobe portion, a passenger portion,
3 a floor member in said passenger portion, at least one door member in said
4 passenger portion, and at least one conduit from an aircraft support system,
5 at least one archway member positioned in said passenger portion of said
6 fuselage, said archway member having an inverted curved configuration with a
7 curved central portion and two curved end portions, each of said curved end
8 portions having an end member positioned on said floor member.

1 15. The aircraft as described in claim 14 wherein said archway
2 member has an internal hollow portion for positioning and passage of said conduit
3 from said aircraft support system.

1 16. The aircraft as described in claim 14 wherein said archway
2 member has a cross-sectional shape selected from the group comprising V-shaped,
3 U-shaped and semi-circular shaped.

1 17. The aircraft as described in claim 14 wherein said aircraft
2 has a plurality of support system conduits positioned in said crown portion and said
3 lower lobe portion, and wherein at least a portion of said support system conduits
4 are also positioned in said archway member.

1 18. The aircraft as described in claim 14 wherein said aircraft
2 has a plurality of support system conduits positioned in said crown portion and said
3 lower lobe portion and wherein at least a portion of said support system
4 components are passed between said upper crown portion and said lower lobe
5 portion through said archway member.

1 19. The aircraft as described in claim 14 wherein a pair of said
2 archway members are positioned closely adjacent each other in said passenger
3 portion and positioned adjacent to said door member.

1 20. The aircraft as described in claim 19 wherein said pair of
2 archway members are positioned on either side of said door member.

1 21. The aircraft as described in claim 14 wherein at least two
2 sets of archway members are positioned in said passenger portion, each set
3 comprising a pair of archway members positioned closely adjacent each other.

1 22. The aircraft as described in claim 14 wherein said archway
2 member is utilized as a divider to separate said passenger portion into two separate
3 sections.

1 23. The aircraft as described in claim 14 wherein said archway
2 member is utilized as a divider to separate said passenger portion from at least one
3 flight service portion.

1 24. The aircraft as described in claim 14 wherein said archway
2 member has at least one integral passageway for positioning of said conduit.

1 25. The aircraft as described in claim 14 further comprising a
2 lavatory positioned in at least one curved end portion of said archway member.

1 26. The aircraft as described in claim 14 further comprising a
2 seat member positioned in at least one curved end portion of said archway member.

1 27. The aircraft as described in claim 14 where wherein said
2 aircraft has a plurality of support system conduits positioned in said crown portion
3 and said lower lobe portion, and wherein at least a portion of said support system
4 components are passed from said upper lobe portion and into said passenger
5 portion through said archway member.

1 28. The aircraft as described in claim 14 wherein said aircraft
2 has a plurality of support system conduits positioned in said crown portion and said
3 lower lobe portion, and wherein at least a portion of said support system
4 components are passed from said lower lobe portion and into said passenger
5 portion through said archway member.

1 29. The aircraft as described in claim 14 wherein said aircraft
2 has a plurality of support system conduits positioned in said crown portion and said
3 lower lobe portion, and wherein at least a portion of said support system
4 components are passed between said upper crown portion and said lower lobe
5 portion through said archway member.

1 30. The aircraft as described in claim 14 wherein said support
2 system is selected from the group comprising an electrical system, a water system
3 and a conditioned air system.